

MARK SHEET FOR UNDERGROUND MINES 2013

Name of Colliery..... Name of members of Inspection
Team Including Convener.

Name of Agent-Shri..... 1.Shri.....(Convener)

Name of Manager-Shri..... 2.Shri.....(Member)

Name of DGMS Officer-Shri..... 3.Shri.....(-do-)

Name of ISO (As observer) 4.Shri.....(-do-)

Date of inspection..... 5.Shri.....(-do-)

Sections of Mine visited:

1.....Development

2.....Depillaring

(Senior most officer will act as convener of the team)

To be filled by Agent / Manager of the Mine

A.	Number (2013)
Cause and place (If No. is more	separate list may be attached)
1.	Fatality
2.	Serious injury
3.	Reportable injury
B.	Order/ Notice under Sec 22 of Mines act, 1952
1.	Issue of order under Sec22A(1) –
	Sec22A(2) –
	Sec22 (3) –

Instruction for Inspection Team

Maximum deduction in case of Mine Accident for the year 2013

- (i) 50 Marks for each Fatality
- (ii) 15 Marks for each Serious Injury
- (iii) 05 Marks for each Reportable Injury

Maximum deduction in case of any non-compliance of Violation.

- (i) 20 Marks for each Order/ Notice under Sec 22A(2),Sec 22(3)
- (ii) 10 Marks for each Order / Notice under Sec 22A(1)

Check-list:- In order to avoid delay and for effective inspection a check list of records, reports, registers etc which are to be checked as per mark sheet shall be provided to the inspecting team at the beginning of the inspection.

Special Feature of the Mine:

These should be verified by the Convener in consultation with the colliery management.

	(A) With Caving	(B) With Stowing
1. (a) Names of Depillaring Dist.	i)	i)
	ii)	ii)
	iii)	iii)
(b) Names of Development Dist	i)	i)
	ii)	ii)
	iii)	iii)
2. Degree of Gassiness:		
3. All unused/old workings isolated by suitable stopping :		Yes/No.
4. History of any mine fire(U/G or Surface) :		Yes/No.
5. Workings under special surface features :		i) Tanks/ Jores etc. Yes/No.
		ii) Rly. Land Yes/No.
		iii) Near common boundary Yes /No
		iv) Others(Specify) Yes/No.
6. Workings within 60m of waterlogged workings :		Yes/No

Following Points to be considered during Annual Mines Safety Week 2013:

- “Negative Marking” will be done if following activities will not be accomplished during the Safety Week Inspection of a Mine(5 marks for each activity not completed):
 - I. Risk Assessment and its Management
 - II. Permanent Public Address System in working condition
 - III. Proper maintenance of Log Book duly signed by in charge of the section for SDL/LHD in U/G and HEMM in O/C
 - IV. Display of Emergency Plan
 - V. Proper Maintenance of Form “B”, “C”, “D” & “E”
 - VI. Any Accidental Damage of Machine.
- There will be one group for U/G mines and two prizes (first & second) will be there in each category for this group.

For O/C mines, two groups (“A” &”B”) will be there. Mines with coal production more than 8 lakh tones per year will be in Category ”A” and remaining Mines will be in category ”B”.
- Guest House Facility will be provided for the inspecting teams and observers to facilitate lighting inspection during night and inspection team should reach at the mine in time. In case of any difficulty in arrangement of guest house, permission can be obtained from competent authority for arranging accommodation at nearby township by the Area.
- Inspecting Team Members to be released in time.
- Persons to be honored/rewarded for Safe Working, Safety Slogans, Safety songs, Article on Safety, best Safety Talk or for any other innovative idea pertaining to Safety.
- General cleanliness /washing of HEMM like dumpers, Dozers to be ensured
- Scrap yard to be prepared and earmarked at every Mine workshop. House Keeping of Workshop should be done by doing auction of surveyed off down dumpers, unserviceable tyres and burnt oil.
- All the safety instruments to be made in order.
- For publishing Souvenir, Articles/safety slogans/experiences related to safety/safety related photographs are to be submitted at the Safety Department, CCL Hq. latest by 10th February 13th.

Note: High level teams consisting of senior level officials will make surprise inspections of the mines during the safety week to cross-check the safety preparedness.

SUMMARY OF MARKS

(U / G Mines)

<u>Sl.No.</u>	<u>S u b j e c t</u>	<u>Full Marks</u>	<u>Marks obtained</u>
1.	Winning & Working	100	
2.	Ventilation	50	
3.	Supports	100	
4.	Treatment of Coal Dust	50	
5.	Surveying & Mine Plans	100	
6.	Lighting , White Washing and Drinking Water	100	
7.	Vocational training, PME, PSC,	100	
8.	House Keeping ,Publicity , Propaganda & Fire fighting	100	
9.	Electrical	200	
10.	Mechanical	100	
11.	Cap Lamp , Safety Lamp and SCSR	50	
TOTAL		:	1050
Marks to be given by the I.S.O. Observer		:	50

Grand Total-			1100

MARKSHEET FOR UNDERGROUND MINES

	Marks
1. WINNING & WORKING	
A. STATUS OF WORKING	
(i) Development/Depillaring as per permission	04
(ii) Width & Height of Galleries as per statute	04
(iii) Provision of First-Aid Station & Miners Station	04
(iv) List of SOP framed for various U/G operation & distribute to concerned person	04
(v) Provision of Escape route & marking on pillars	04
(vi) Risk assessment and preparation of Safety Management Plan	05
(vii) Framing Emergency Organization Plan, Mock rehearsal & its activation	05
Total	30
B. SECTIONALISATION:	
(i) Drawing of scheme for Sectionalisation	05
(ii) Percentage of compliance	10
(iii) Thickness & standard of stopping	05
Total	20
C. USE OF EXPLOSIVES:	
i) Magazines	
a) General Cleanliness	02
b) Fencing around magazine	02
c) Watch tower & guards	02
d) Sirens	02
e) Lighting.	02
f) Lightning arrestor	02
g) Sand buckets	02
h) Fire Extinguishers	02
i) Water tank .	02
j) Validity of license	02
k) Up to date test certificate of lightning arrestor	02
l) Receipt and issue register	02
m) Authorisation of magazine in-charge magazine clerks Shot-firers and Explosive carriers.	02
n) Use of proper containers for carrying explosives(these should be in colours for three shift & have strong locks)	02
o) Supply of adequate stemming materials near workings faces.	02
p) Use of approved type of explosives	02
q) Use of transit slips	02
r) Use of tools, crack detectors, scrapper, stemming rod, circuit tester, stop watch, shot-firing cable, audio-visual alarm etc.	02
vii) Reserve Stations:	02
Proper sitting, fences, support, remoteness from Traveling & haulage road, distance from power cable	
viii) Safety consciousness of Shot-firers and Helpers as assessed on the basis of oral questions.	02

Total 40

D. STAUS OF VIOLATION FOR THE YEAR 2013

- (i) No Violation pointed by DGMS 05
- (ii) Compliance within time frame 05

Total 10

Total Marks (A), (B), (C) & (D) - **100**

N.B. (i) For repetitive violations 5 marks to be deducted.

2. VENTILATION

- i) Adequacy of ventilation:-
Quantity of air passing along the immediate out by ventilation connection of at least three working faces in a development district or out-bye in the first and the last working faces in a depillaring district 10

NOTE: Deduct 2.5 marks for every Cu. m less than 6 Cu. m per minute per person employed in the district in the largest shift.

OR

Deduct 2.5 marks for every Cu.m less than 2.5 Cu.m per minute per tonne of daily output, whichever is more.

- ii) Velocity of Air: 10

The range for the purpose of marking is as follows:

Board and Pillar Workings:

When Brattices are used	When air pipes are used	Longwall Workings
15 to 45m/min in the intake side of the Brattice partition, measured 4.5 meters from the face.	7.5 to 22.5m/min measured 7.5m out-bye of the discharge end of the air pipe	30 to 90 mtrs/minute along the face
Award 1 mark for every 1 mtr/minute above 15 mtrs/minute.	Award 1 mark for every 0.5m/min above 7.5 mtrs/min	Award ½ mark for every 1 mtr/min above 30 mtrs/minute.

- iii) Ventilation efficiency quotient (VEQ) i.e. the proportion of the quantity of air available at the beginning of the split and reaching the first working place in the district. 10

NOTE: Full marks of 80% deduct 1 no. for every 1% deduction in VEQ

- iv) Wet bulb temperature at the working places

Award full marks if WB temp is not more Than 30°C. Deduct 2 marks for every 1°C above 30°C. 10

v) Whether coursing within 4.5m of the face being done.	10
vi) Gas survey (Copy of gas must be verified)	10
vii) Adequacy of Gas detecting equipment	10
viii) Calibration record of gas detecting equipment	10
ix) Independence ventilation circuit	10
x) Other records	<u>10</u>
TOTAL	<u>100</u>

3. SUPPORTS

SUPPORT OF DEPILLARING WORKINGS: DEPILLARING WITH STOWING:

A. i) Observance of Systematic support rules:	
(a) Support of working place.	05
(b) Advance support up to two pillar length from the places under extraction.	10
(c) Goaf edge support & fencing	05
(d) Up to date stowing	20

Note:- (Award full marks if void is within permissible limit.
Deduct 10 marks for each 200 m³ void.)

Sub-Total 40

OR

DEPILLARING WITH CAVING:

II) Observance of systematic support rules:	
a) Support of working places	10
b) Advance support up to two pillar lengths from the place under extraction	20
c) Support of goaf edges and fencing	<u>10</u>

OR 40

SUPPORT OF DEVELOPMENT WORKINGS

i) Whether systematic support rules have been framed for the development workings within 10m of the faces and immediate out-bye junction (As required under CMR 108(1) (bb) for the entire district as required under CMR 108(1) (d)	10
ii) Support upto 10 m from face	10
iii) Support of junction and loading point	10
iv) Support of other places specified as per SSR & Where the workman has to pass within the District.	<u>10</u>
Sub total	40

B) SUPPORT OF OTHER PLACES:-

(i) Haulage road and traveling roads, pumping station & haulage room.	10
(ii) Support of Stations in the districts.	<u>10</u>

C) WORKMANSHIP&SUPPORT MATERIALS:-	<u>20</u>
(i) Tightness of supports/verticality of roof bolts	10
(ii) Proper size of lids and wedges (not less than 0.50 m length 8 c.m. thickness and width not less than diameter of the props) and adequate number of laggings over cross-bars(not less than one for every metre length of cross bar)/getting of proper size of fencing & nut)	05
(iii) Proper size of the timber (the diameter of the props should not be less than 15 cm at 30 cm from the base. For Seams thicker than 3.5 m, props should be thicker if steel supports are not used) .	05
(iv) Support plan submitted to DGMS & approved	10
(v) 10% testing and putting identification marks on Bearing plate and record maintenance	10
Grand Total	<u>40</u> <u>100</u>

4. TREATMENT OF COAL DUST

(i) Qty. of stone dust used per te. of coal produced (during preceding 12 months)	05
(ii) System of water spraying arrangement within 90 m of the faces	05
(iii) Provision and Maintenance of stone dust barrier at all strategic points	10
(iv) Maintenance of dusting and sampling plan	10
(v) Maintenance of Record of Dust Survey.	05
(vi) Availability/Use of Personal Dust Sampler and maintenance of proper record	05
(VII) Removal of Stacked and Fallen coal	10
Sub total	50

5. LIGHTING,WHITE WASHING AND DRINKING WATER

(i) Surface and UG Lighting as per Statute (Face, Traveling Roadway, Engine house, Coupling & decoupling points, Loading /unloading point)	10
(ii) White Washing (Surface)	10
(iii) White washing and stone dust treatment of Traveling Roadway & Haulage Roadway, First Aid Station, Sub Station, Engine Room	10
(iv) Provision of U.G Telephone at vital locations	10
(v) First Aid station and First Aid kits with Supervisors	10
(VI) Provision of potable Drinking water	
(a) Pit office	10
(b) Miner's station	10
(c) Work shop	10

(d) Canteen	10
(e) Sub station	10
Sub Total	100

6. SURVEYING & MINE PLANS

Survey Office & Connected Facilities:

i. Adequate space	02
ii. Proper ventilation and lighting	01
iii. Surveyor/Draftsman's table, sitting and working arrangements	01
iv. Flat storage arrangements, flat storage of plans	01
v. General housekeeping	<u>01</u>

Sub-total **06**

SURFACE PLAN:

a. Surface plan prepared on mounted paper/polyester films on the basis of fresh survey and coordinate calculation	01
b. Name of the owner, Mine & purpose for which the plan is prepared	01
c. Scale, 25 Cms long suitably sub-divided	01
d. Complete existing mine boundary	01
e. True North/Magnetic North with date	01
f. Index No. of the plan and certificate of accuracy	01
g. Linking of survey with common reference stations and bench marks:	01
h. All water courses with H.F.L.	01
i. All surface features of Railway acquired land with tracks and other permanent constructions of railways, road power/telephone, opencast workings and buildings and the permanent structures	02
j. Surface contours at not more than 5 meter interval	01
k. Surface triangulations/traverse net work station	01
l. Signature of surveyor and manager with date:	<u>01</u>

Sub-total **13**

B. UNDERGROUND PLAN:

Prepared on mounted paper polyester films on the basis of the fresh survey and co-ordinate calculations.	02
a. Name of the owner, Mine & purpose for which the plan is prepared	01
b. Scale 25 Cms long suitably sub-divided	01
c. True North Magnetic North with date	01
d. Complete mine boundary	01
e. Index no. of the plan and certificate of accuracy	01
f. Linking of survey with common reference stations and bench mark	02
g. All water courses with HFL	02
h. Every bore hole, shaft with depth incline opening, cross-measure drift, goaf, fire-stopping or seal, water dam, pumping stations and haulage roadway	01
i. Every important surface feature within the boundaries, such as railway, road river, stream, water-course, tank reservoir, opencast	01

working, and building which is within 200 meters of and part of the workings measured on the horizontal plane.

j.	Up to date underground workings with dates, quarterly survey lines.	03
k.	General direction and rate of dip of strata	01
l.	Detailed sections of seam and strata	01
m.	Position of every fault/dyke and other geological disturbances with amount and direction of throw.	01
n.	Spot levels along important drivages and at the end of the workings	02
o.	Underground survey stations	01
p.	Abstract of all statutory restrictions with reference no. of order imposing the same.	02
q.	Surface contours at not more than 5m intervals	01
r.	Extent of working of adjacent colliery lying within 60 mtrs. of the mine	01
s.	Complete existing mine boundary	01
t.	Signature of surveyor and Manager on Mine Plan (Quarterly)	<u>01</u>
	Sub-total	<u>28</u>

C. WATER DANGER AND VENTILATION PLAN:

a Water Danger Plan

All true copy of underground plan on tracing cloth/ Polyester films showing additional features as follows:

i)	Extent of all disused/unused underground working with water levels (if it is water logged) lying within 60 mtrs.	02
ii)	Correct HFL . of the water courses in the mine	01
iv)	Details of all protective work provided for withholding water from entering the mine system	01
v)	Surface drainage system	01
vi)	"Warning Lines" to draw visual attention to danger arising out of surface water/waterlogged mine working and water bearing strata connected with faults/dykes.	02
vii)	Position of Pumps with capacity	01
		<u>08</u>

b. VENTILATION PLANS:

True copy of the underground plans on tracing polyester films (showing condition) details are as follows:

i)	The normal direction of air current	01
ii)	Every point where the quantity of air is measured	01
iii)	Every air crossing ventilation door, stopping etc.	01
iv)	Every fire stopping and its serial no.	01
v)	Every room used for storing inflammable material	01
vi)	Every pumping, telephone and ambulance station	01
vii)	Every haulage and traveling roadway	<u>01</u>
	Total	<u>07</u>
	Sub-Total	<u>15</u>

Sl.No.	Item	Max. Marks	Marks awarded
-----	-----	-----	-----
D. OTHER STATUTORY PLANS:			
a)	Rescue plan	02	
b)	Sampling plan	02	
c)	Sectionalisation plan showing scheme of Sectionalisation of working	02	
d)	Bore holes section	02	
e)	Manpower distribution plan	01	
f)	Subsidence plan and section	02	
g)	Combined plan for contiguous working lying within 9 rntrs	02	
h)	Geological plan	<u>02</u>	
	Sub-total	<u>15</u>	
E. CHECK SURVEY & NATIONAL GRID:			
i)	Check Survey done by the Surveyor other than the colliery Surveyor	05	
ii)	Connected to National Grid	<u>02</u>	
	Sub-total	<u>07</u>	
SURVEY INSTRUMENTS: (in order)			
a.	Theodeolites	01	
b.	Drawing accessories and printing machine	01	
c.	Levels	01	
d.	Computer	01	
	Sub-total	<u>04</u>	
RECORDS:			
a.	Permission letters. Files with plans etc.	01	
b.	Register of plans	01	
c.	Records of coordinates/computations etc.	02	
d.	Field book/computations book register	02	
e.	Maintenance of surveyors diary under coal mines regulation 1957	<u>01</u>	
	Sub-total	<u>07</u>	
MISCELLANEOUS:			
a.	Adequacy of Survey Personnel	02	
b.	Maintenance of survey control and reference point	01	
c.	Maintenance of Bench Marks	01	
d.	Maintenance of HFL and withdrawal level	<u>01</u>	
	Sub-total	<u>05</u>	
	Grand -total	100	

- Note: - A) Requirement of surveyors, including statutory requirement, vis-a vis actual strength to be mentioned in an attached sheet
 B) Requirement of Chainman to be calculated as 3 chainmen against one surveyor. Actual number available to be mentioned in the attached sheet.

7. VOCATIONAL TRAINING PME and PSC, implementation of recommendation of Safety Conference, Court of Enquiry

& Safety Consciousness.

(i)	No. of persons trained against Target(Departmental)	10
(ii)	No. of Contractor's workers trained against total no On Roll	10
(iii)	Special training	10
(iv)	Implementation of recommendation of 10th Safety Conference	10
(v)	IME/ PME (Achievement / Against Target)	
a.	Departmental workers	10
b.	Contractors workers	10
(vi)	P.S.C. meetings and implementation of its recommendations	20
(vii)	Statutory Records & Register including B- Form and Attendance Register for contractors workers	15
(viii)	Issue of V.T. certificate and I- card to contractors workers	05
	TOTAL	<u>100</u>

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8.

A - HOUSE-KEEPING/PUBLICITY & PROPAGANDA

i)	General cleanliness of Incline Top, Pit head , workshop, sub-station cleaning pit office and toilet	20
(ii)	Organizing Safety Drama and Video recording	10
(iii)	Display of Poster/Banners	10
(iv)	Display of Safety Models	10
(v)	Safety Talks and Safety propaganda by Permanently established Public address system	20
	Sub total-	70

B- FIRE FIGHTING

(i) Control of fire at Surface in coal stock	10
(II) Fire fighting arrangement in vital locations- its suitability , adequacy and maintenance	10
(iii) Fire Fighting Scheme in case of Emergency	05
(IV) Fire fighting Training including use of Fire Extinguishers	05
Sub total-	30
TOTAL	<u>100</u>

9 A. ELECTRICAL:

Maintenance of records:

(i) Proper Electrical layout (Sub station to face Machinery)	05
(ii) Maintenance of daily electrical log books of Electrician	05
(iii) Maintenance of shut down procedure/ Work permit	05
(iv) Maintenance of records of relay testing	05
(v) Maintenance of log sheet of electrical Supervisor.	05
(vi) Repair/maintenance of trailing cable	05
(vii) Approval of HT apparatus / Equipments	05
Sub total-	35

B. Maintenance of FLP Features:

a. Maintenance of Flange gaps & availability of feeler gauge	05
b. fixing of proper nut and bolts & its tightening	05
c. Maintenance of protective devices such as earth leakage relay, OC relay etc.	05
d. Maintenance of pilot circuit protection, HRC Fuses in Drill/Drill Panel	05
e. Physical condition of the Apparatus, Indicators, Meters, earthing.	05
f. Fitment of connecting bushes, End terminal boxes, plugs & sockets	05
g. Proper cable end termination of motors & Switchgears and compounding.	05
Sub total-	35

C. Maintenance of Trailing Cable:

- | | | |
|----|------------------------------------------------------------------------------|----|
| a. | Physical condition of the cable, proper jointing with cable gland, bush etc. | 05 |
| b. | Cable support & Insulation value of the cable | 05 |
| | Sub total- | 10 |

D. Maintenance of Armoured Cable:

- | | | |
|----|------------------------------------------------------------------------------------------------|----|
| a. | Physical condition of the cable, laying, proper supporting. | 05 |
| b. | IR Value of the cable and it's record keeping | 05 |
| c. | End termination & proper compounding of junction boxes, proper jointing and earthing of cables | 05 |
| | Sub total- | 15 |

E. Maintenance of Intrinsically safety features

- | | | |
|----|--------------------------------------|----|
| a. | In Signaling bell & bell transformer | 05 |
| b. | In u/g Telephones | 05 |
| | Sub total- | 10 |

F. Maintenance of protective devices in switch gear

- | | | |
|----|--------------------------------------------------------------------------------------------------------------------|----|
| a. | Maintenance of protective devices | 05 |
| b. | General condition/upkeep of the u/g sub-station, switch station etc., maintenance of trans-switch unit/transformer | 05 |
| | Sub total- | 10 |

G. Electrical surface sub- station:

- | | | |
|-------|-----------------------------------------------------------------------|----|
| (i) | Approval of HT Apparatus | 05 |
| (ii) | Shut Down Procedure – its proper record keeping. | 05 |
| (iii) | Relay testing records | 05 |
| (iv) | Maintenance of Log sheet of Electrical Supervisor as per Annexure XII | 05 |
| (v) | Maintenance of Overhead lines, minimum | 05 |

ground clearance as per statute and provision of Cradling.

(vi) Painting & marking of poles, danger boards	05
(vii) Displaying of electrical single line diagrams and maintaining proper lay out of Power Cables.	05
viii) Earth pits, proper earthing & records of periodic measurement of earth resistance.	05
(ix) Maintenance of Transformers, switch gears	05
(x) Painting of transformers and switchgears, Level of oil in conservators and it's IR value records.	05
(xi) Provision of Fire Extinguishers, lightening arresters, Hand gloves, discharging rod, Fiber & reinforced plastic (FRP) / wooden ladder, rubber shoe.	05
(xii) Proper illumination & upkeep of sub-station	05
(xiii) Implementation of restricted neutral system	05
(xiv) Maintenance of protective device	10
(xv) Maintenance of Armoured Cable & Cable joints.	05
(xvi) Cleanliness of Sub Station	05
Sub total-	85
TOTAL A to G	200

10. MECHANICAL :

HAULAGE :-

1) Layout and foundation	5
2) Electrical motor, control gear and protection against overload/ EL/ no volt. Electric cables (layout, size and earthing).	10
3) Condition of drum/brake/rope guards	5
4) Approved type of rope clips/rope cappel/coupling	5
5) Guards, fences, danger notices etc. Safety Devices (AVA signal, prestart alarms etc.)	10

6) House keeping	5
7) Fire fighting arrangement	5
8) Condition of rope, certificate.	5
9) Condition of tubs	5
10) Condition of couplings/rope cappel etc.	5
11) Provision of inter coupled stop blocks and run away switches, buffer, booking pulleys, friction rollers, tracks, fish plates, check rails	20

SUB TOTAL 80

OR

CONVEYOR

A)

1) Condition of belt, joints, tension, fencing, guards. Condition of rollers, idler and self aligning roller.	10
2) Condition of tail end drum guard and provision of inter locking device	10
3) Condition of drive head and motor, gear, switches, brakes, couplings, guards & drum	10
4) Structure and support including deck plate. Arrangements against spillage and water spraying arrangement Loading and transfer points (impact idlers, proper chute and wipers).	10
5) Condition of roadway (cross over bridge) Condition of loop take up arrangement	05
6) Prevention of corrosion (painting)	05
7) Signalling (transformer, bell suitability of cut out wiring, signal wires) & telephone	05
8) FLP pull cord switch, prestart warning, sequence control	05
9) Fire fighting equipment at drive end. Permission of belt installation and display at sites.	10
10) Display of code of practice for belt conveyors and its implementation (copy to be enclosed with marksheet).	10

SUB TOTAL 80

B). PUMPS:

(i) Foundation bolts & Coupling guards, Sluice Valve ,foot valve & non return valve.	05
(ii) Proper laying of pipes & Joints and adequacy of pumping capacity.	05
(iii) pumping layout diagram	05
(iv) Proper gland packing , coupling bolts/flexible coupling and vibration of pump sets	05

Sub total- 20

11. CAP LAMP, SAFETY LAMP and SCSR

(a)	Condition of Cap lamp Room & charging rack, House-keeping, fuse etc.	05
(b)	Fire fighting arrangement and use of fire proof materials in cap lamp room.	05
(c)	Condition & adequacy of Cap Lamps (at least 20% extra of total U/G Manpower)	05
(d)	.Training and awareness on the use of SCSR	05
(e)	Use & Maintenance of Safety Lamp	05
(f)	Use and maintenance of Nursery charger	05
(g)	Supply of power to cap lamp charger	05
(h)	GL-7 Flame Safety Lamp under use.	05
(i)	Spares & tools for GL-7 Flame Safety Lamp	05
(j)	Log book for each cap lamp	05
	TOTAL	50